

**FIG. 1**

FIG. 2

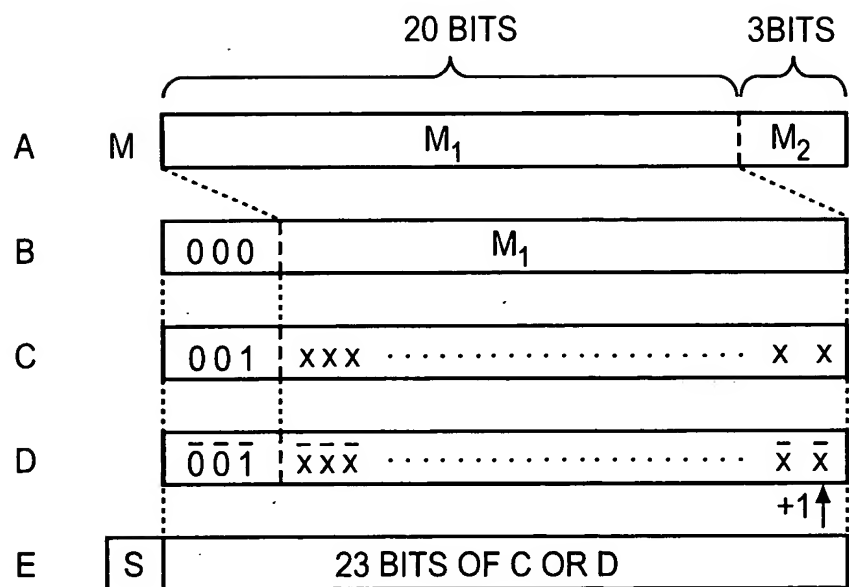
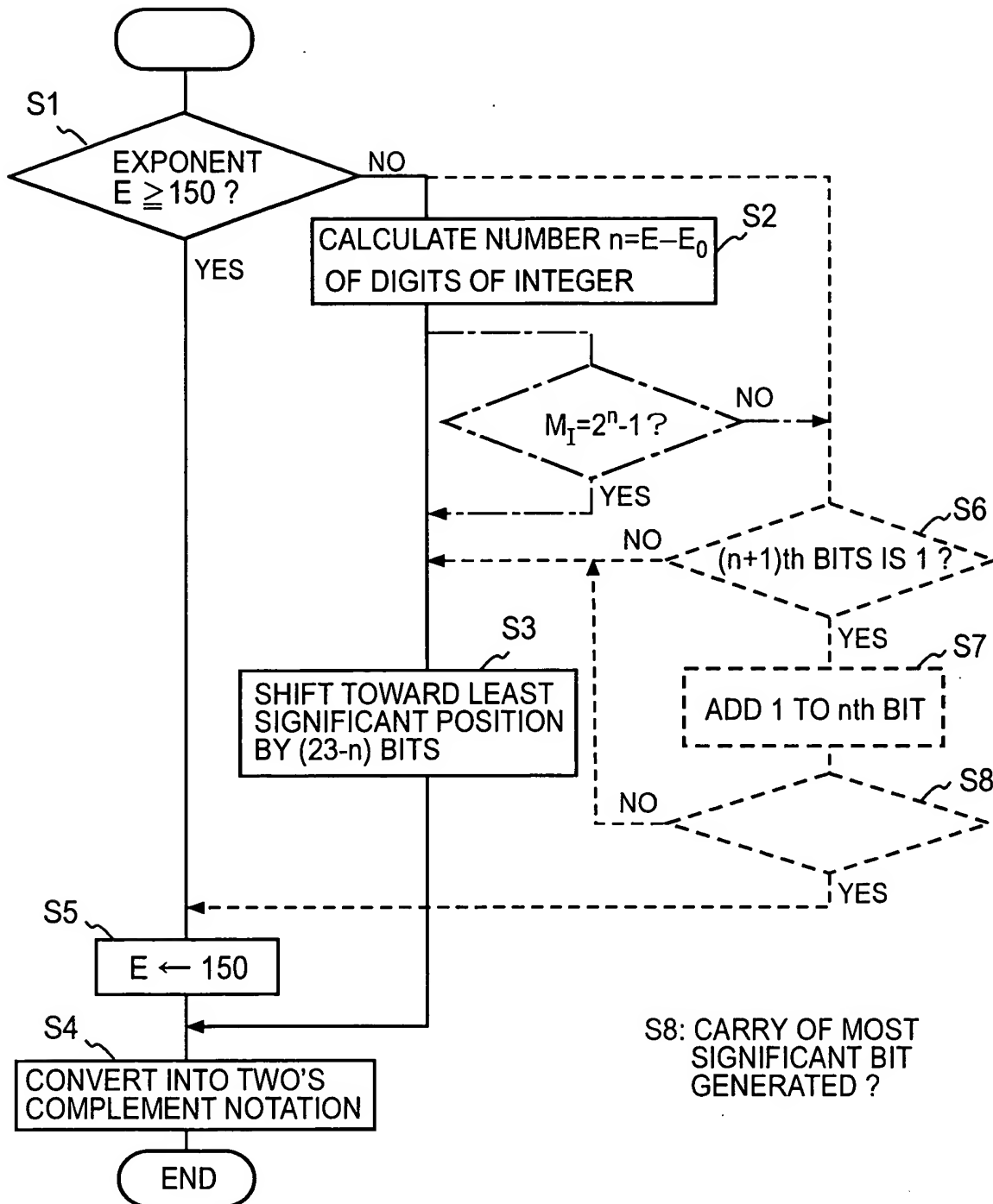


FIG. 3



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FIG. 4

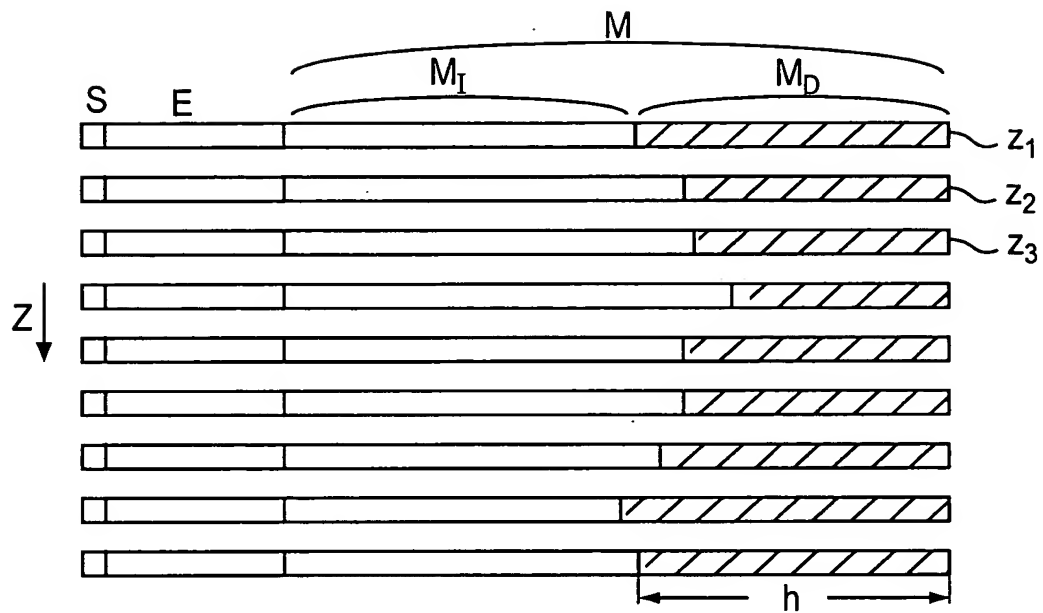
n	ABSOLUTE VALUE OF INTEGER VALUE $X_W$	23-BIT MANTISSA M
-127	0	0 $\cdot$ $\underbrace{x_{23} x_{22} \dots x_1}_{P_D}$
0	1	1 $\cdot$ $\underbrace{x_{23} x_{22} \dots x_1}_{P_D}$
1	2 to 3	$\underbrace{1 x_{23}}_{2 \text{ BITS}} \cdot x_{22} \dots x_1$
2	4 to 7	$\underbrace{1 x_{23} x_{22}}_{3 \text{ BITS}} \cdot x_{21} \dots x_1$
k-1	$2^{k-1}$ to $(2^k-1)$	$\underbrace{1 x_{23} x_{22} \dots x_{23-(k-2)}}_{K \text{ BITS}} \cdot x_{23-(k-1)} \dots x_1$
22	$2^{22}$ to $(2^{23}-1)$	$\underbrace{1 x_{23} \dots x_2}_{23 \text{ BITS}} \cdot x_1$

FIG. 5

ABSOLUTE VALUE OF INTEGER VALUE $X_W$	SIGN S AND EXPONENT E	MANTISSA M
0	NO CONSTRAINT	NO CONSTRAINT
1	0	NO CONSTRAINT
2 to 3	0	MOST SIGNIFICANT ONE BIT: 0
4 to 7	0	MOST SIGNIFICANT TWO BITS: 0
—	—	—
$2^{k-1}$ to $(2^k-1)$	0	MOST SIGNIFICANT k-1 BITS: 0
$2^{22}$ to $(2^{23}-1)$	0	MOST SIGNIFICANT 22 BITS: 0

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FIG. 6



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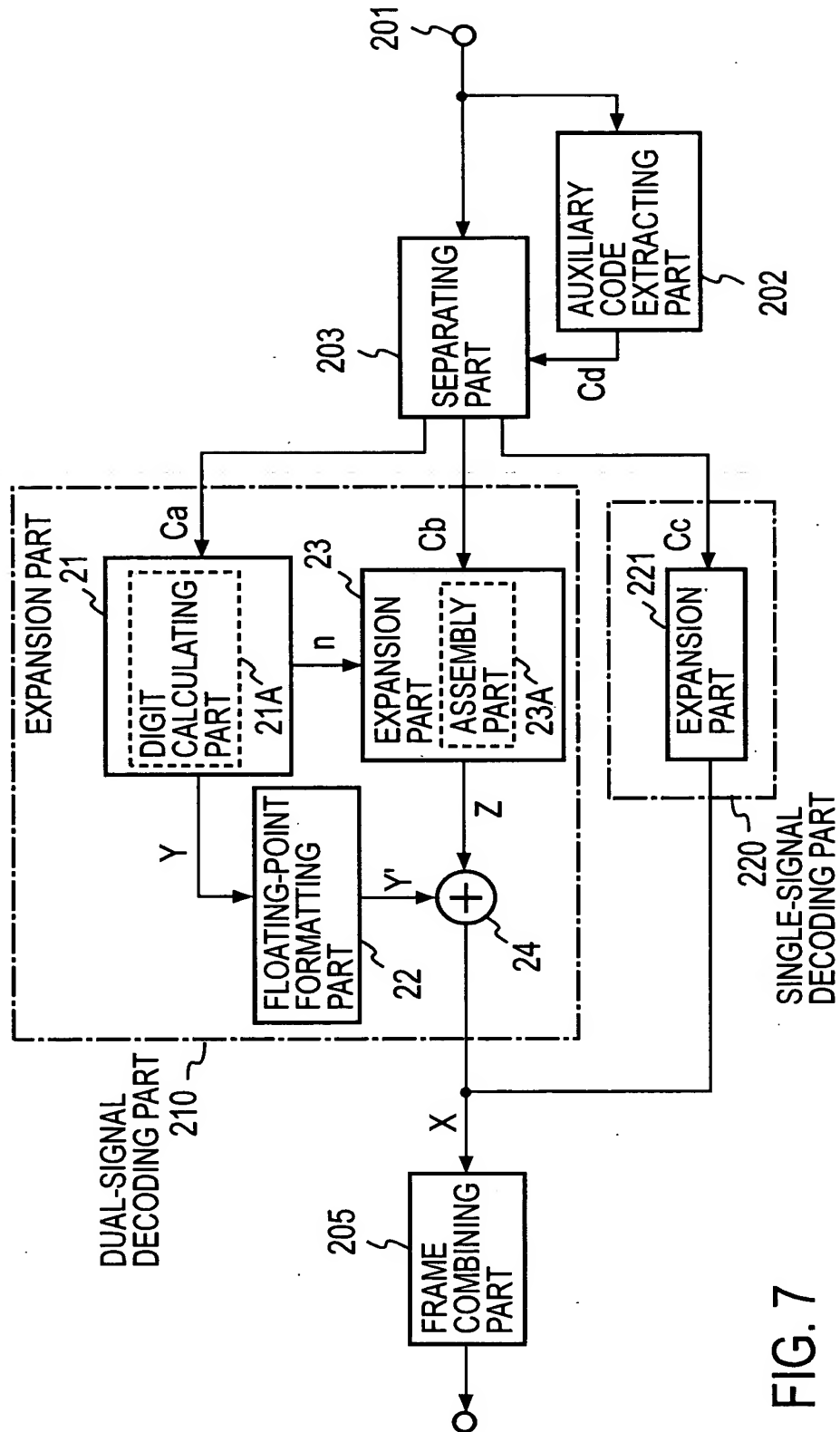


FIG. 7

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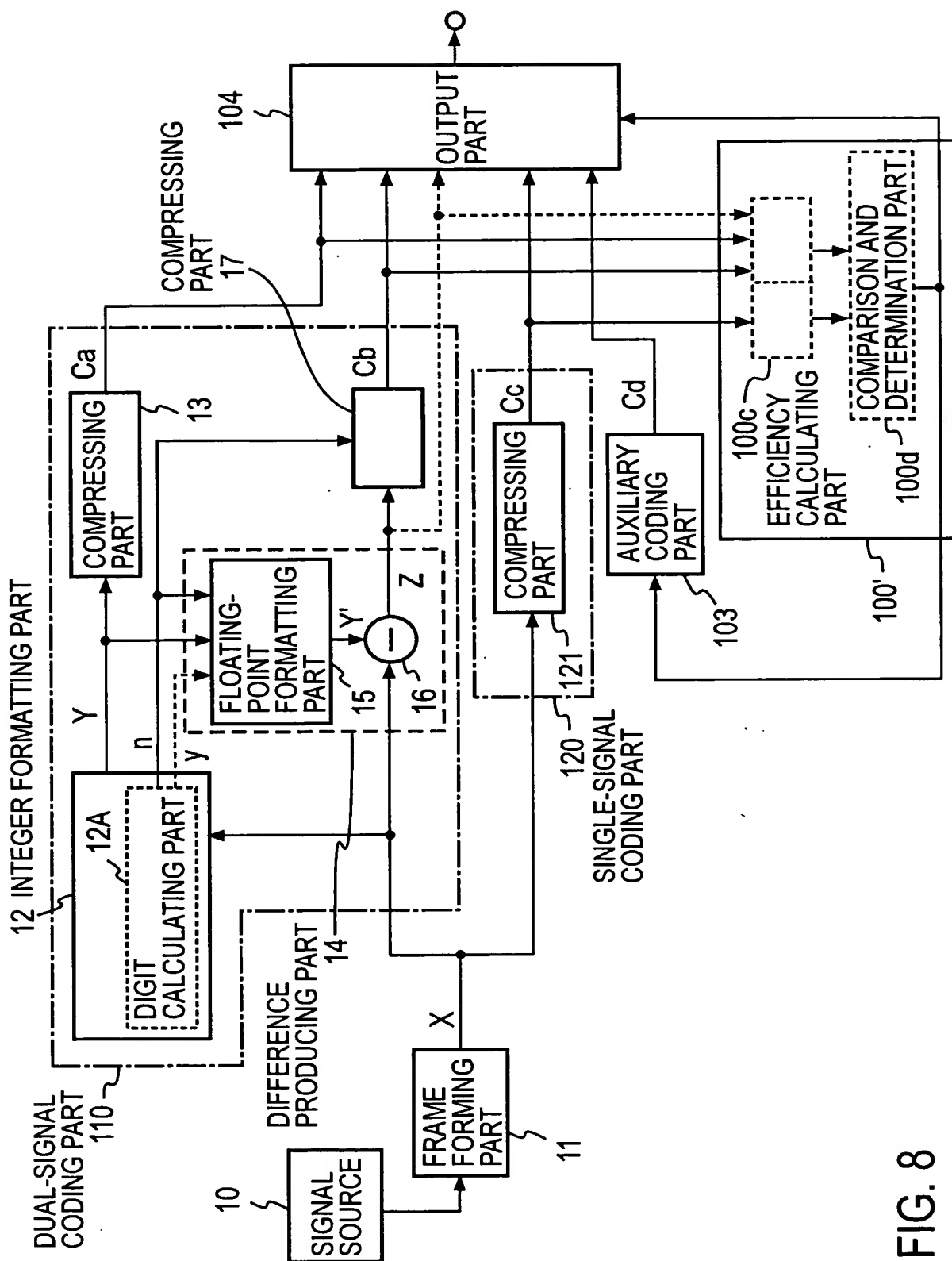


FIG. 8

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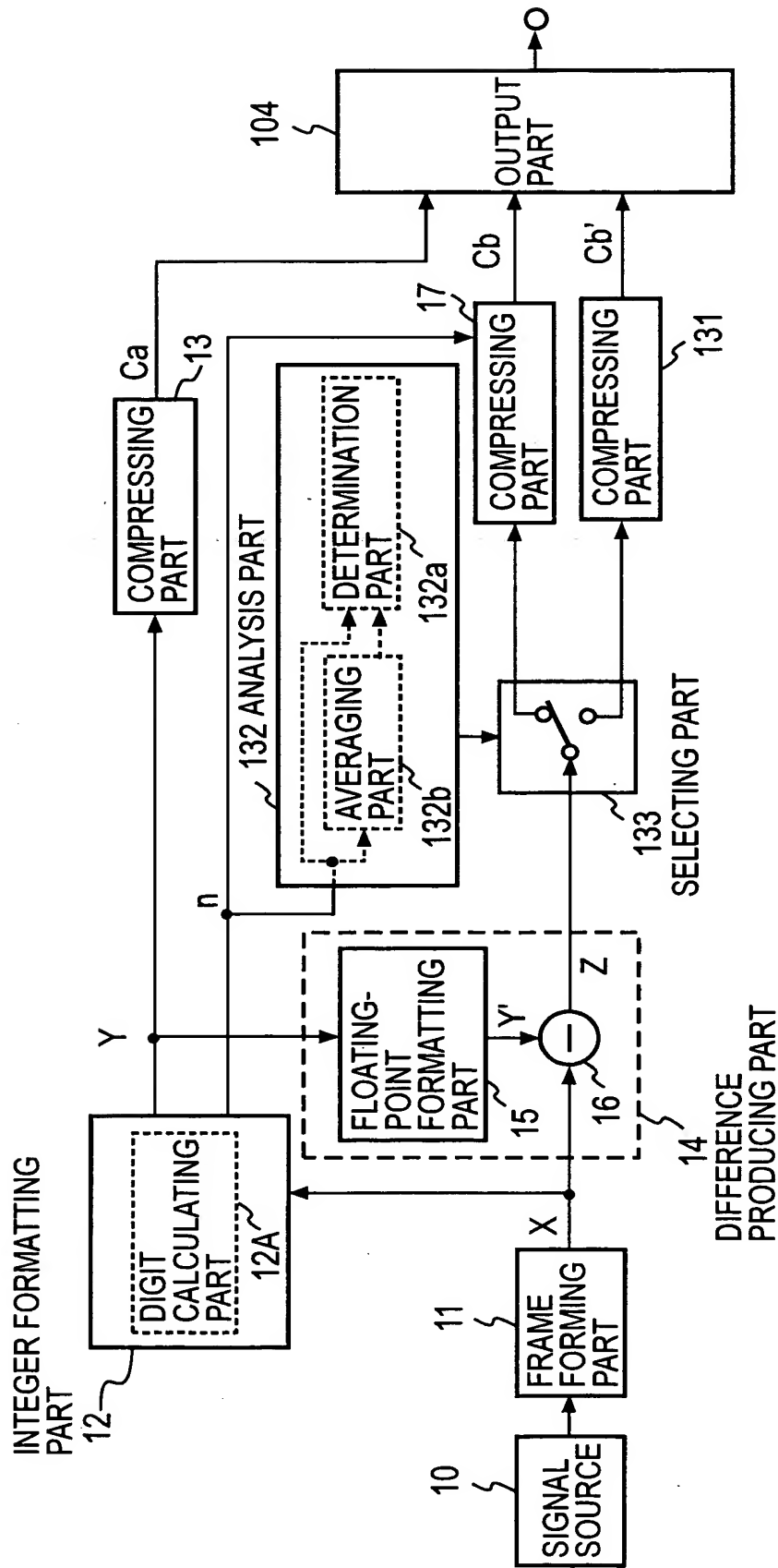


FIG. 9



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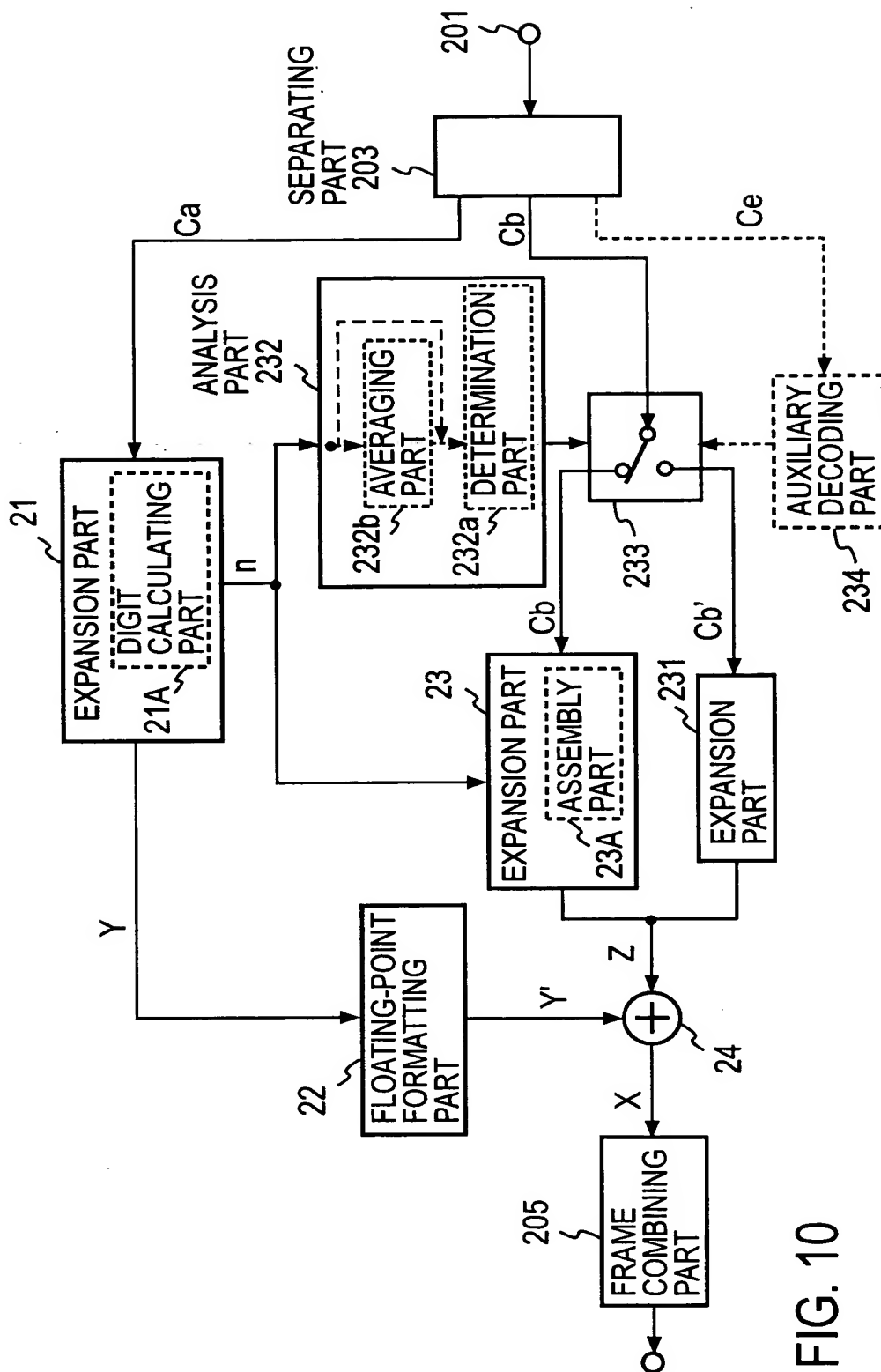


FIG. 10

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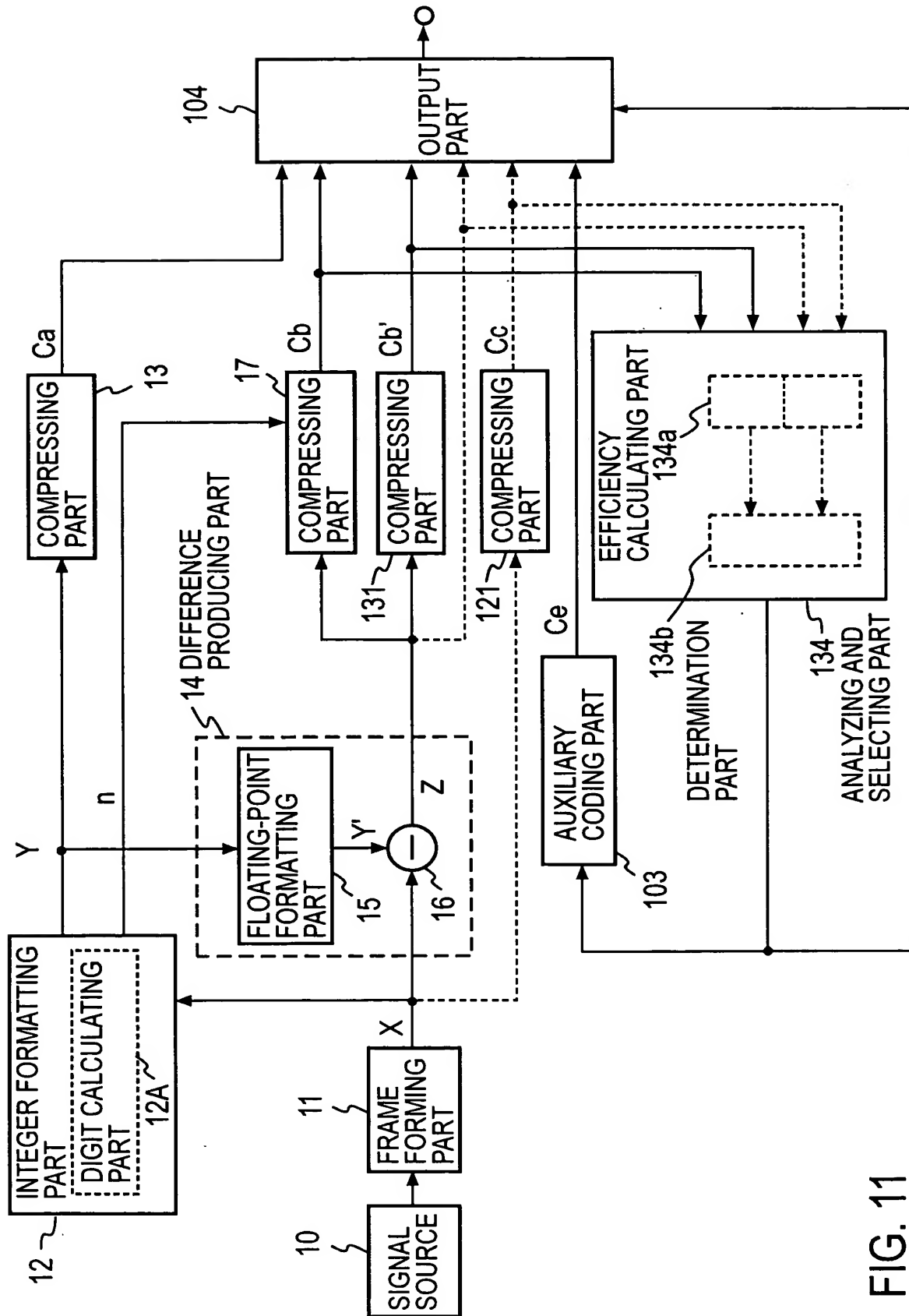
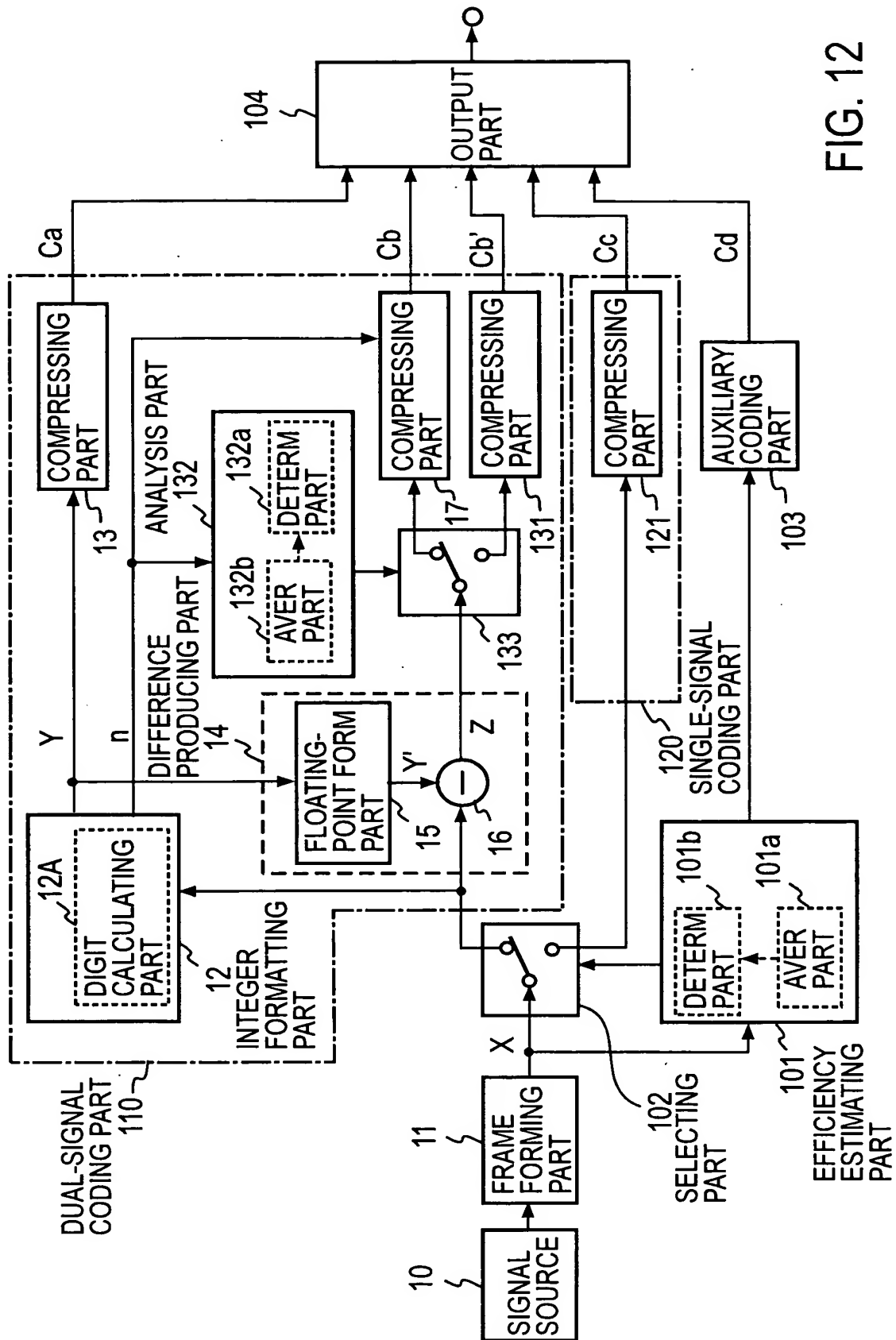


FIG. 11

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FIG. 14A

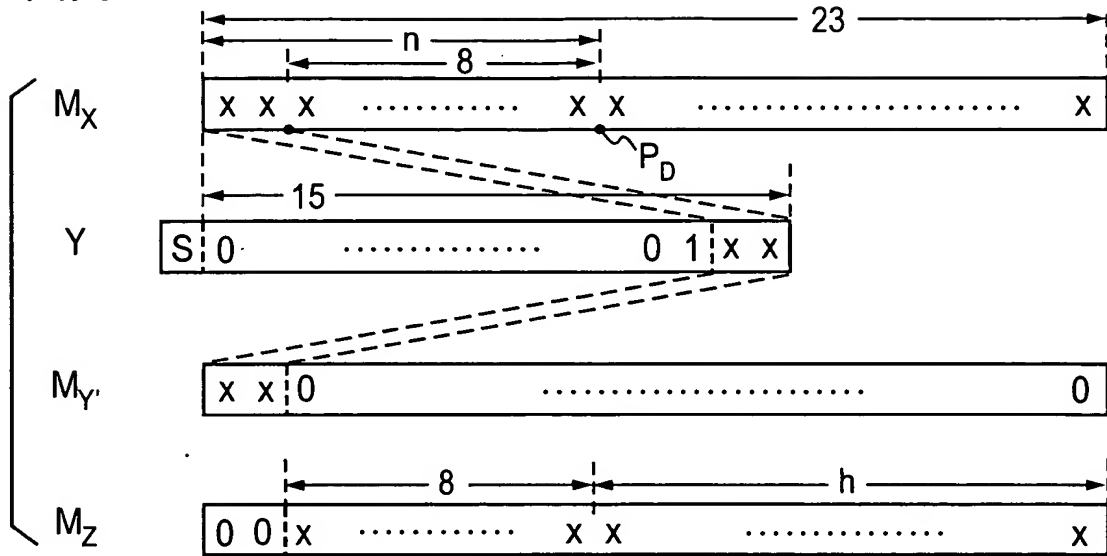


FIG. 14B

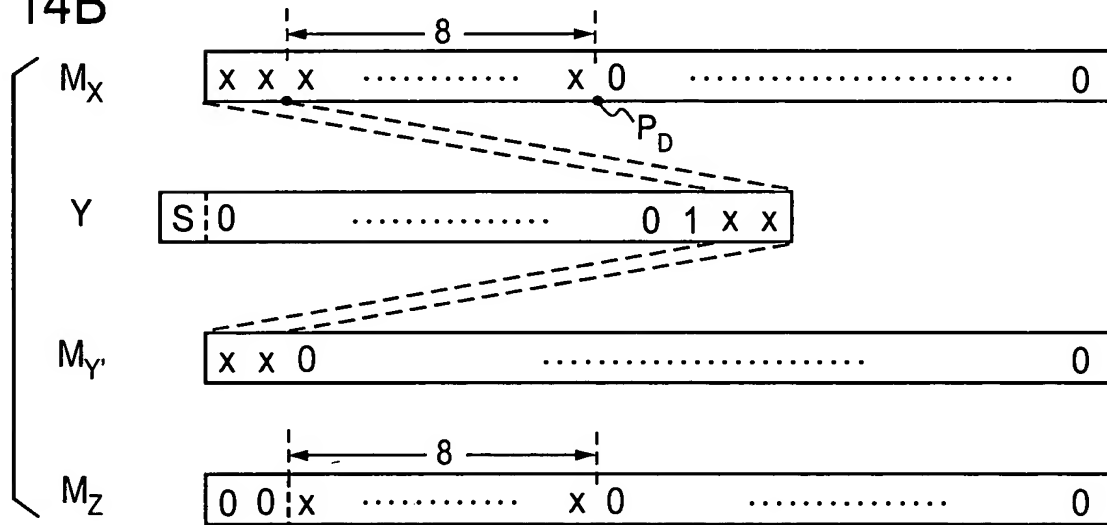
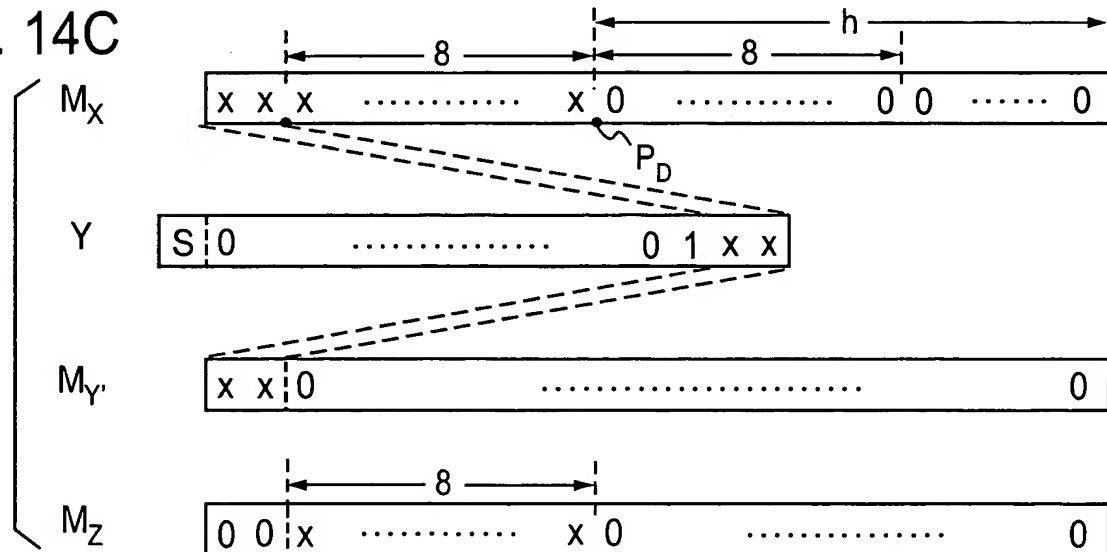


FIG. 14C



[illegible][illegible]

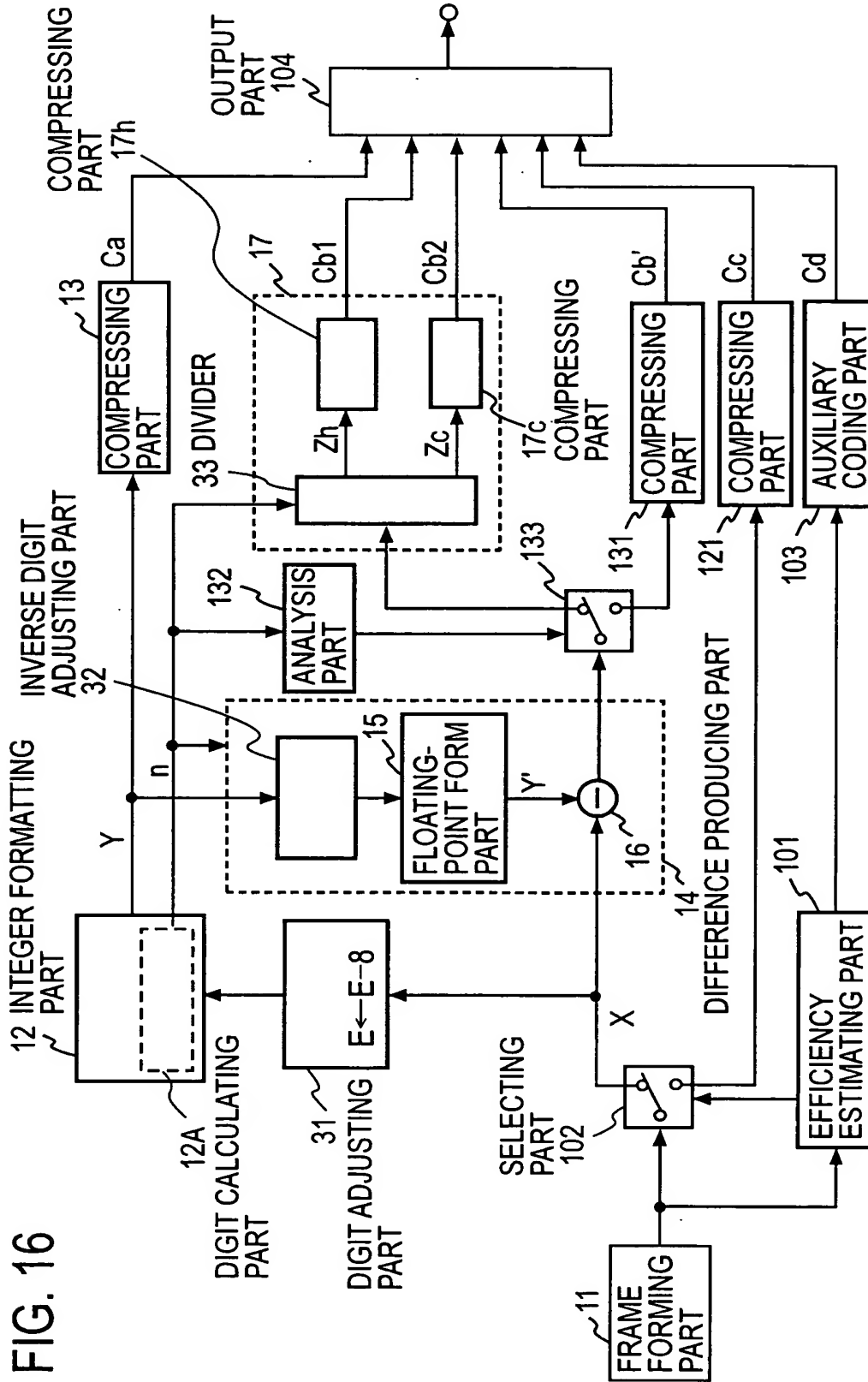


FIG. 16

FIG. 17

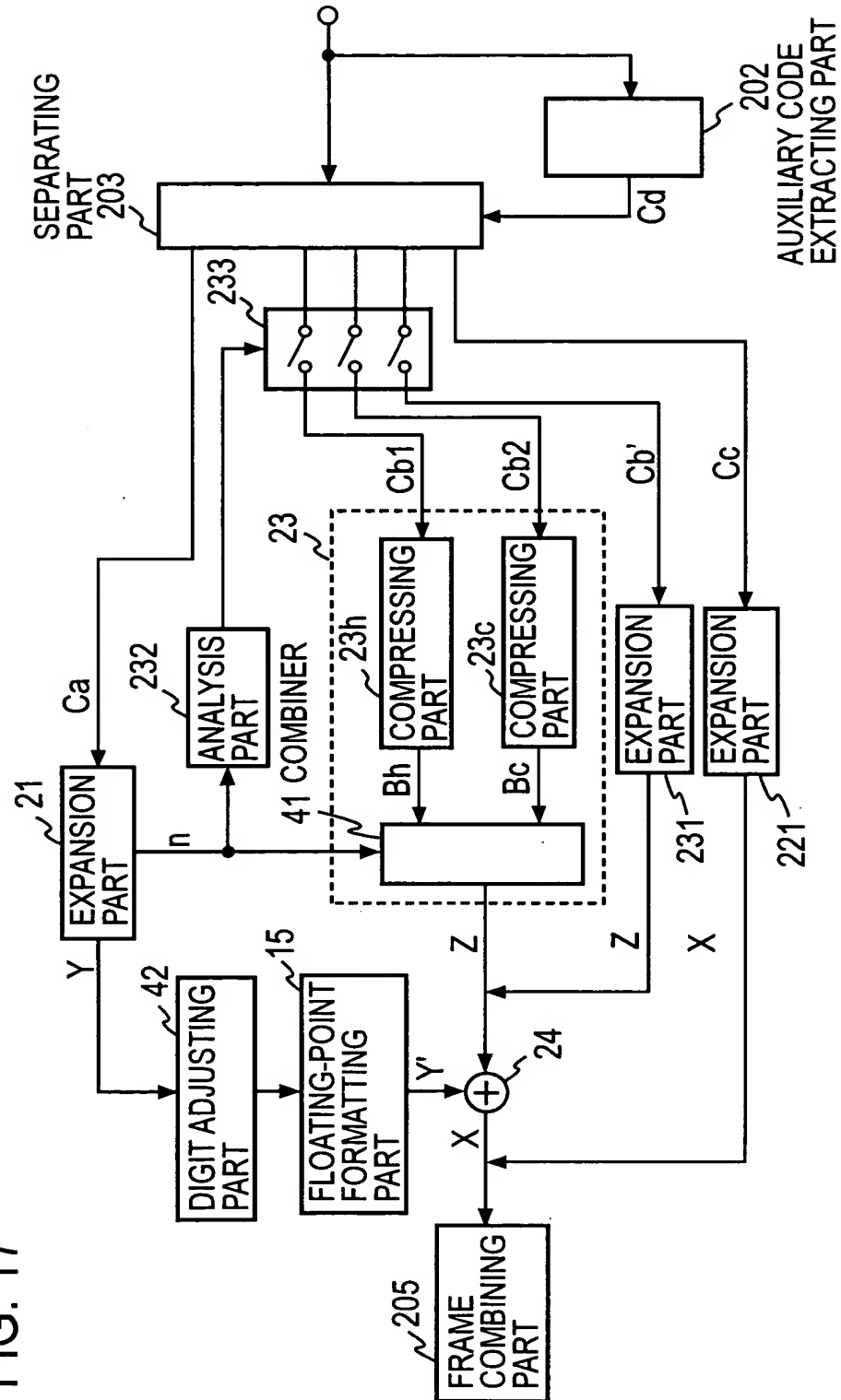




FIG. 18

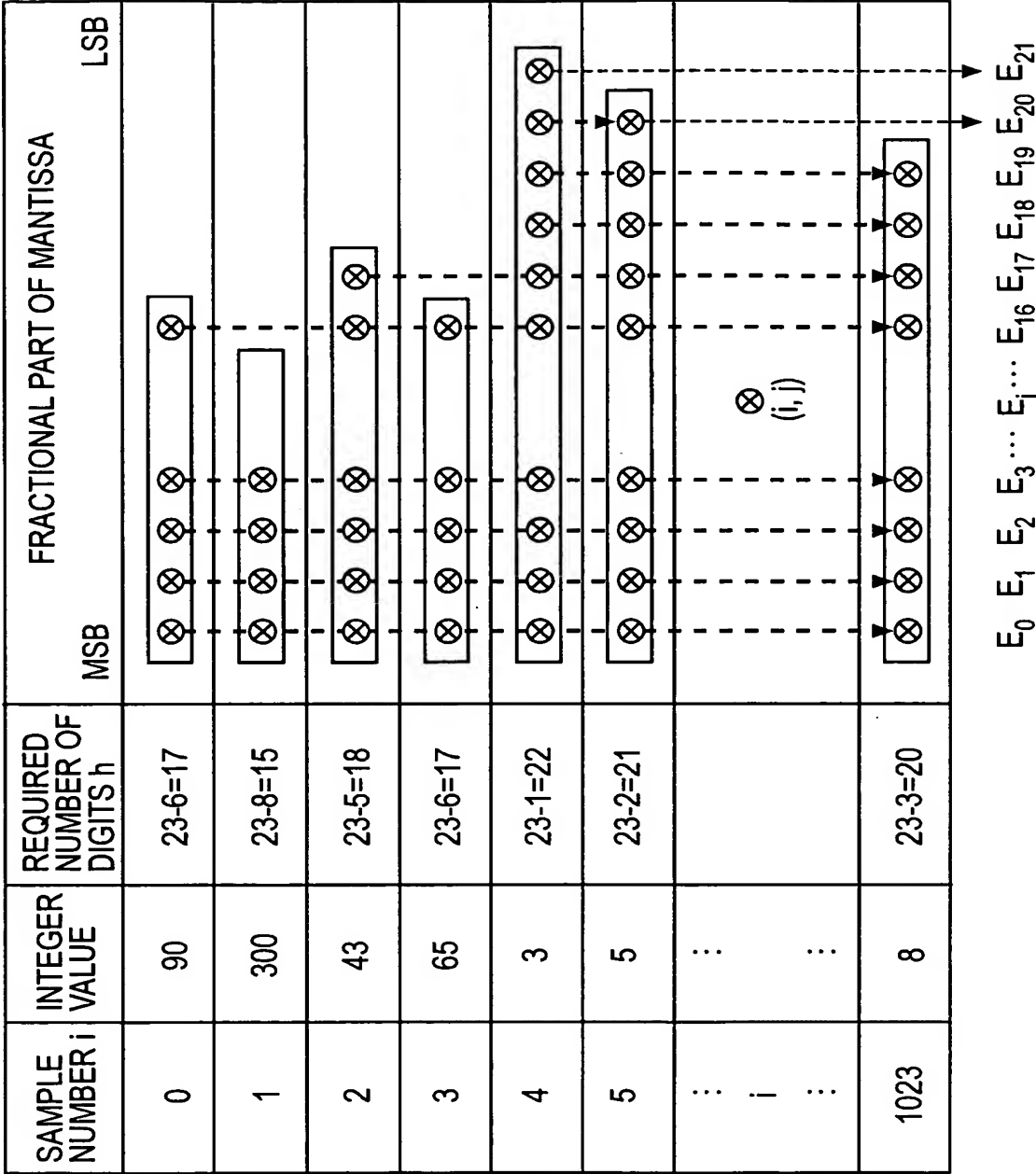


FIG. 19

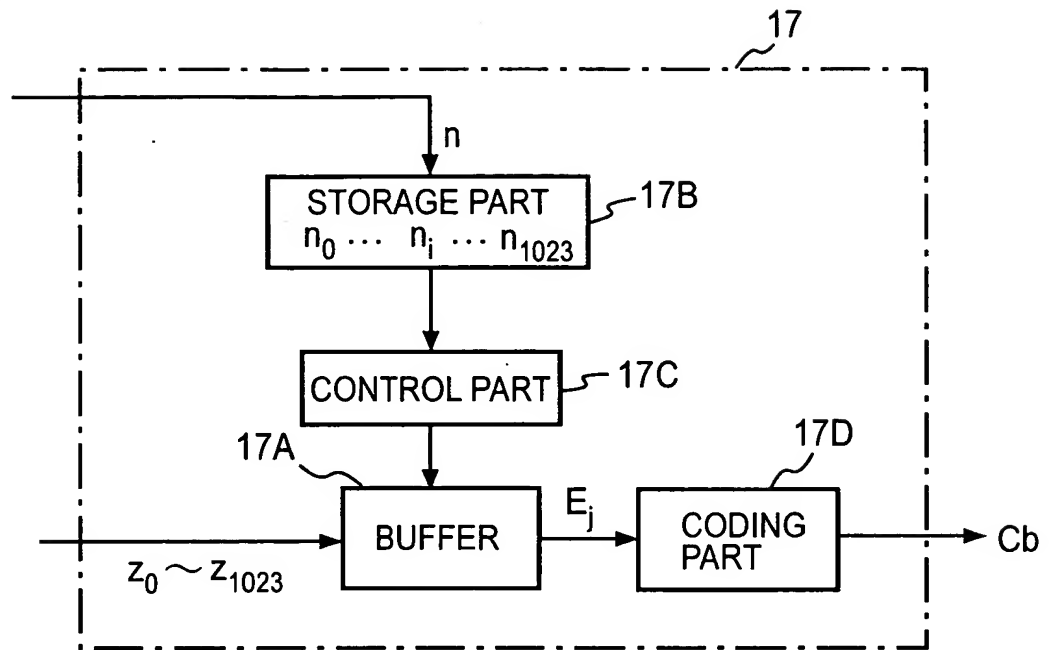


FIG. 20

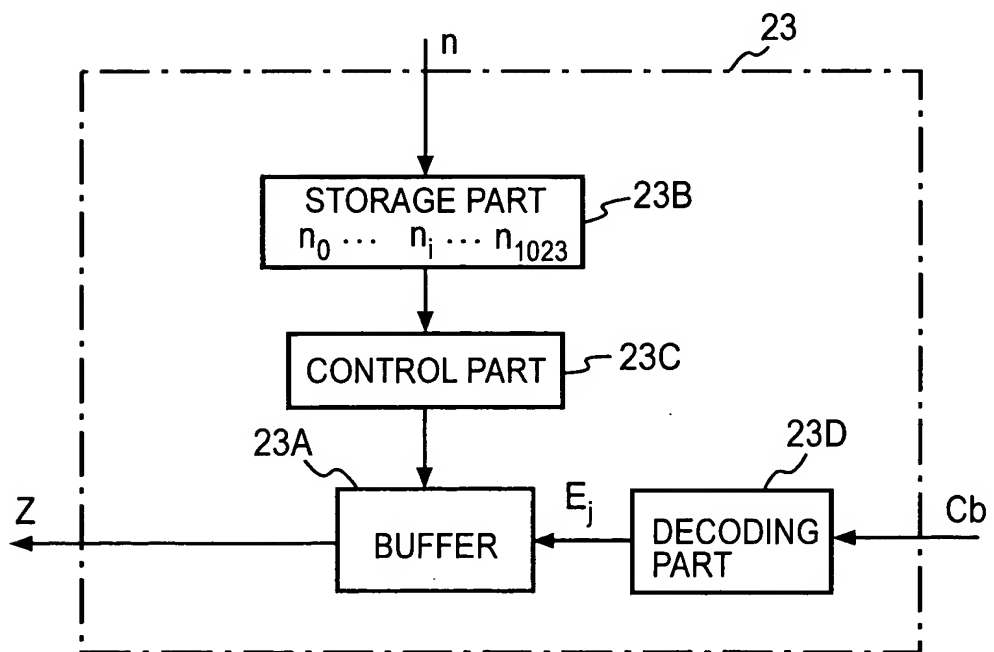
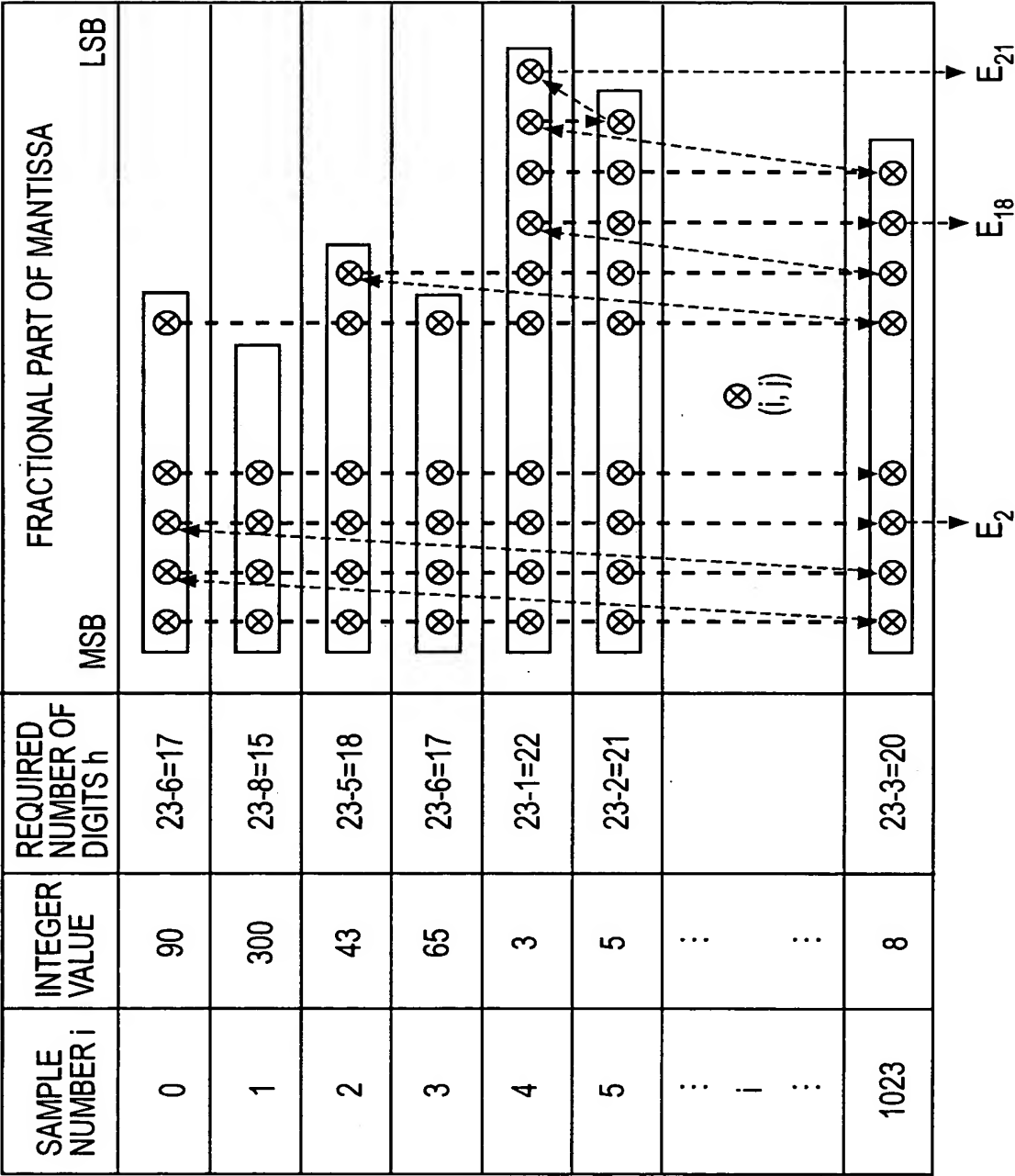


FIG. 21



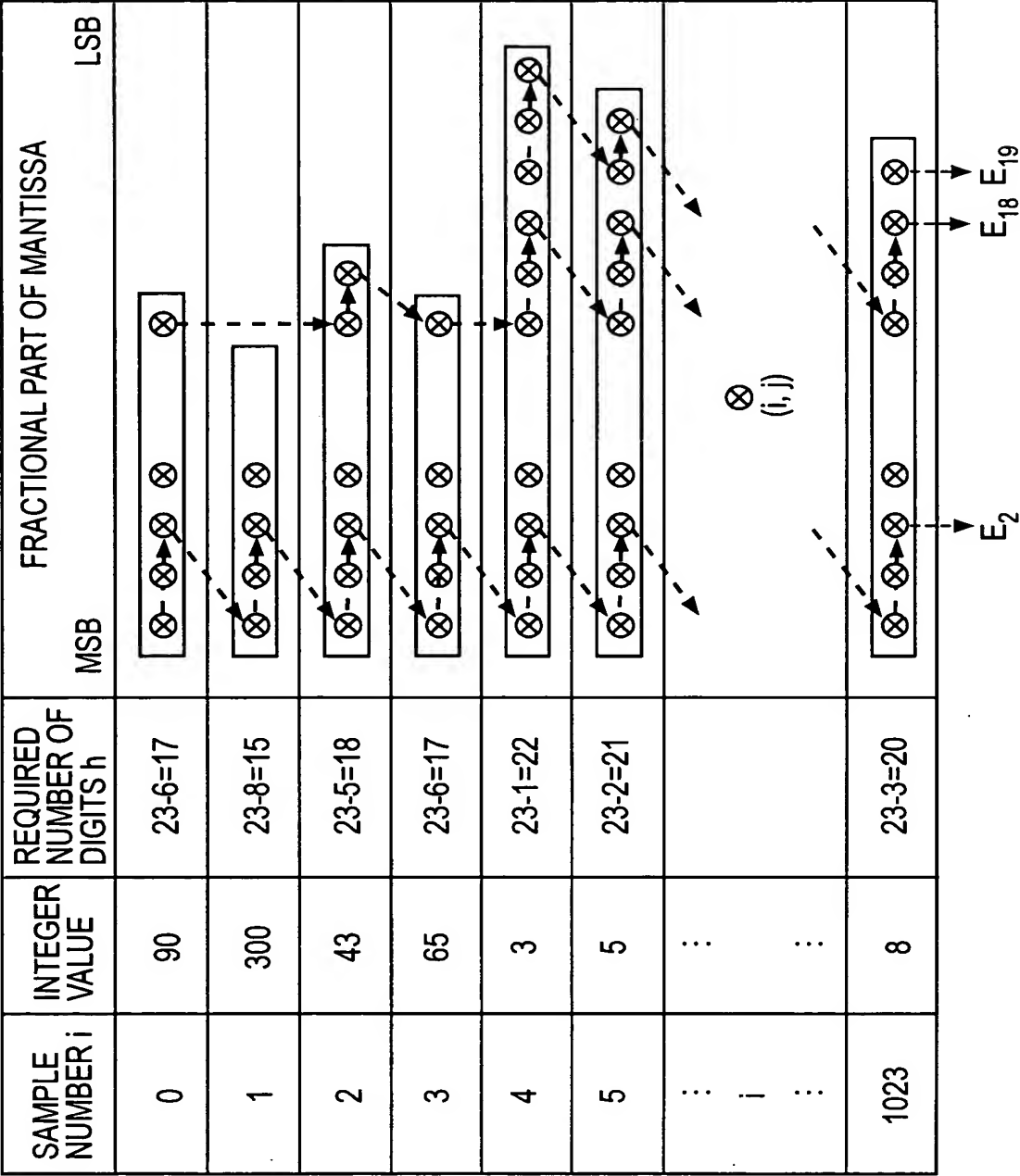
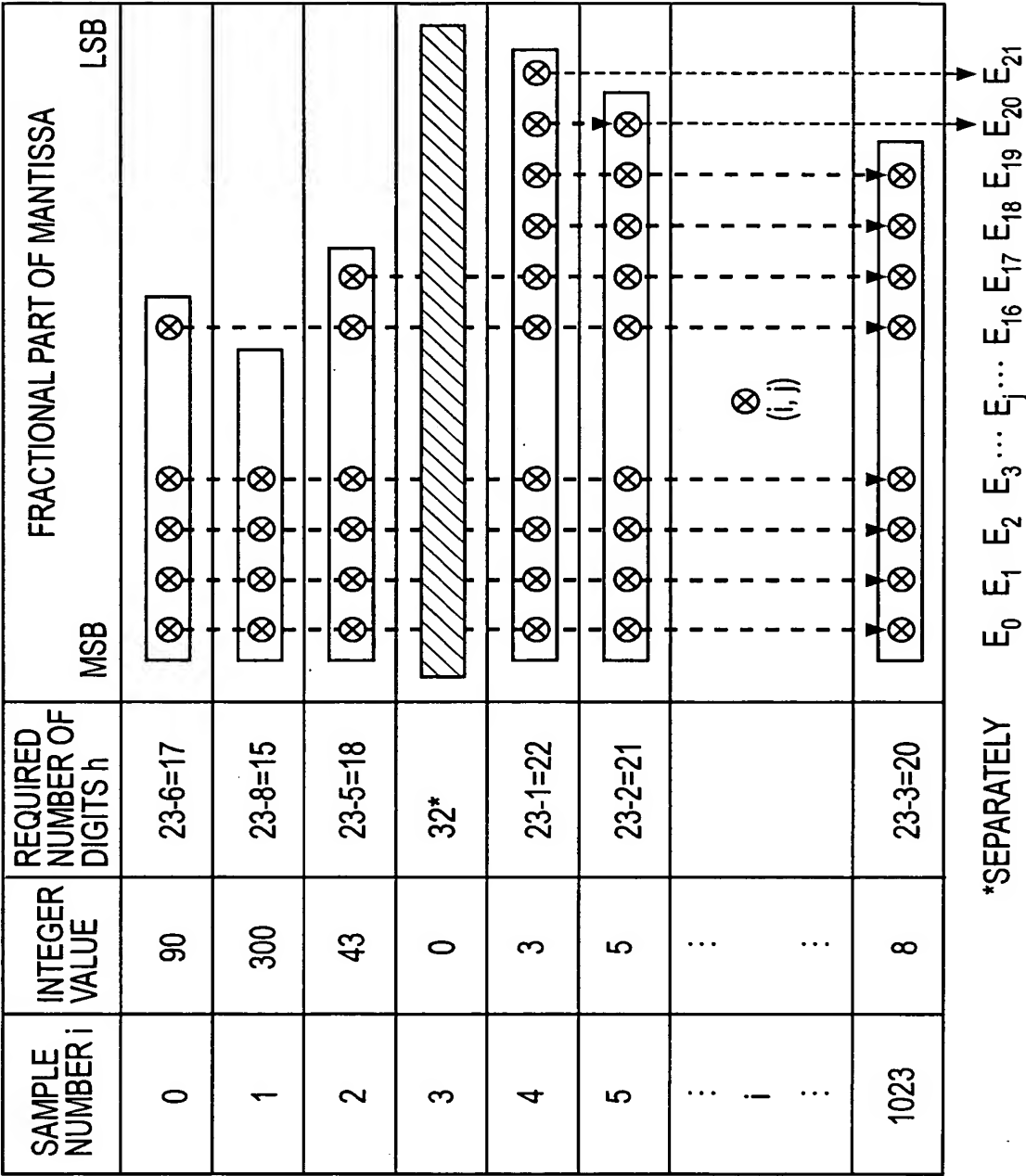


FIG. 23



**FIG. 24**

SAMPLE NUMBER $i$	INTEGER VALUE	REQUIRED NUMBER OF DIGITS $h$	FRACTIONAL PART OF MANTISSA	
			MSB	LSB
0	90	23-6=17		
1	300	23-8=15		
2	43	23-5=18		
3	65	23-6=17		
4	3	23-1=22		
5	5	23-2=21		
⋮	⋮			
1023	8	23-3=20		

$E_{22} \quad E_{21} \quad E_{20} \quad E_{19} \quad E_{18} \quad E_{17} \quad E_{16} \cdots E_j \cdots E_3 \quad E_2 \quad E_1 \quad E_0$

FIG. 25

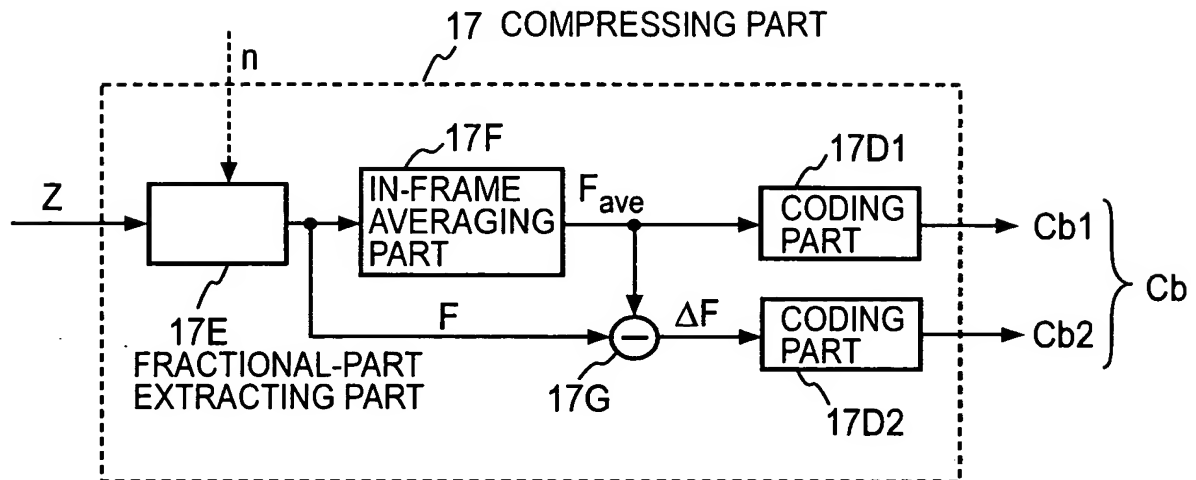


FIG. 26

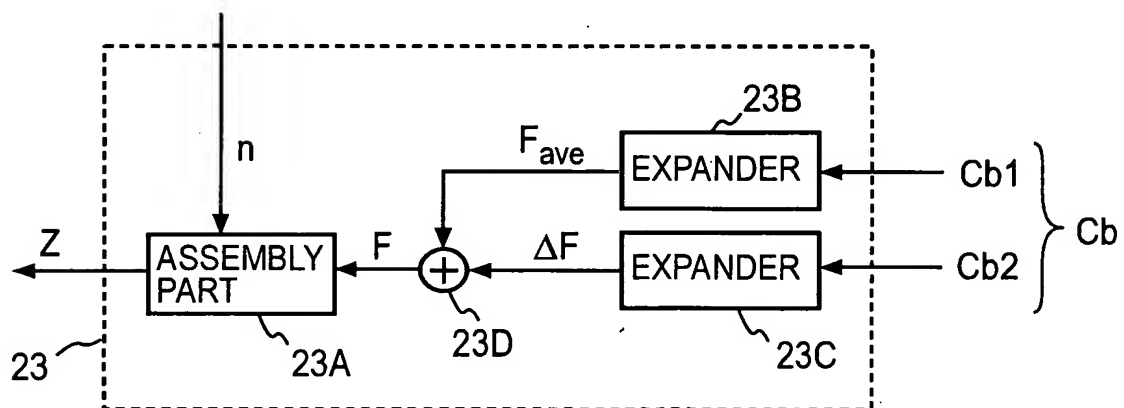


FIG. 27

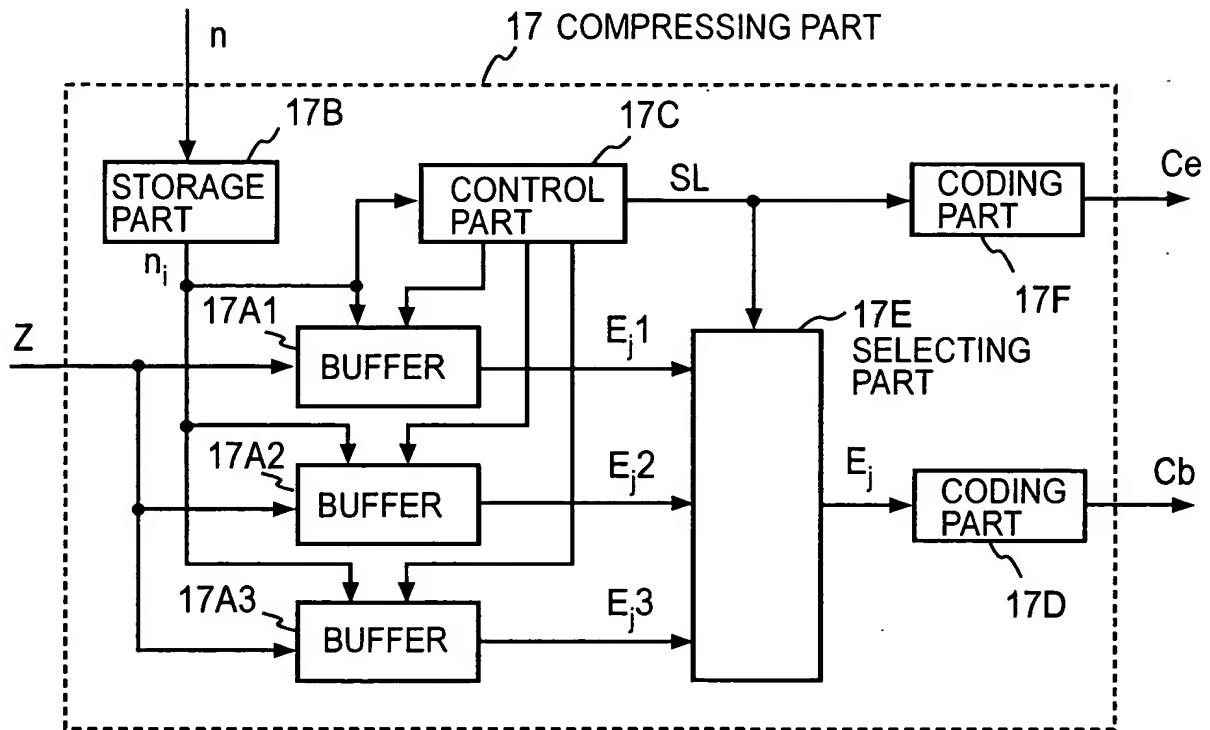


FIG. 28

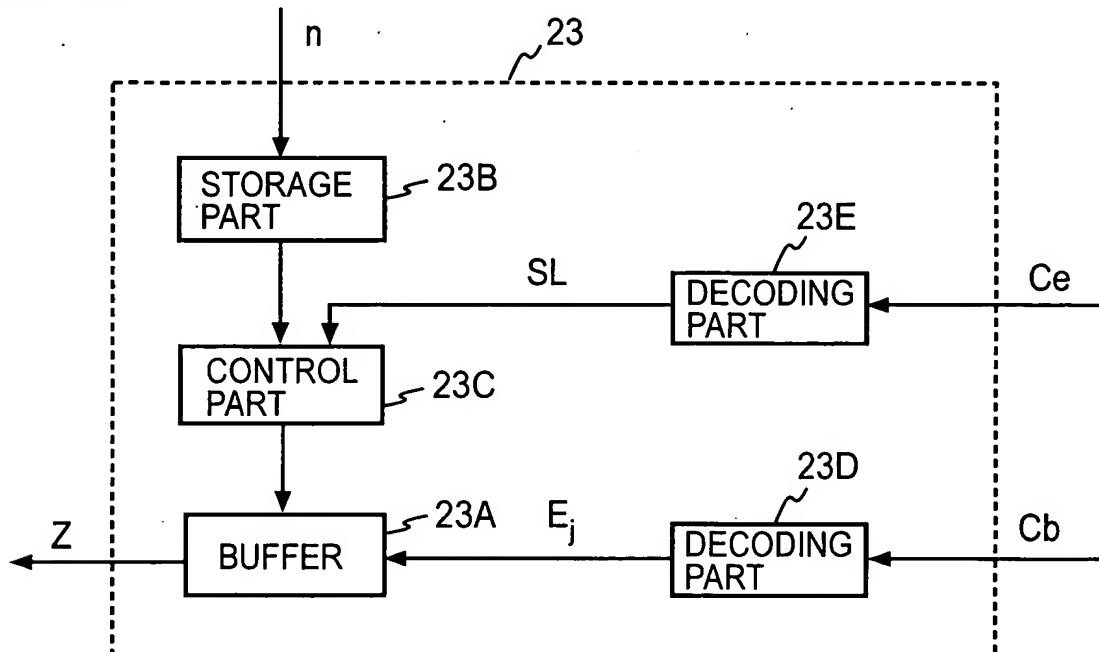
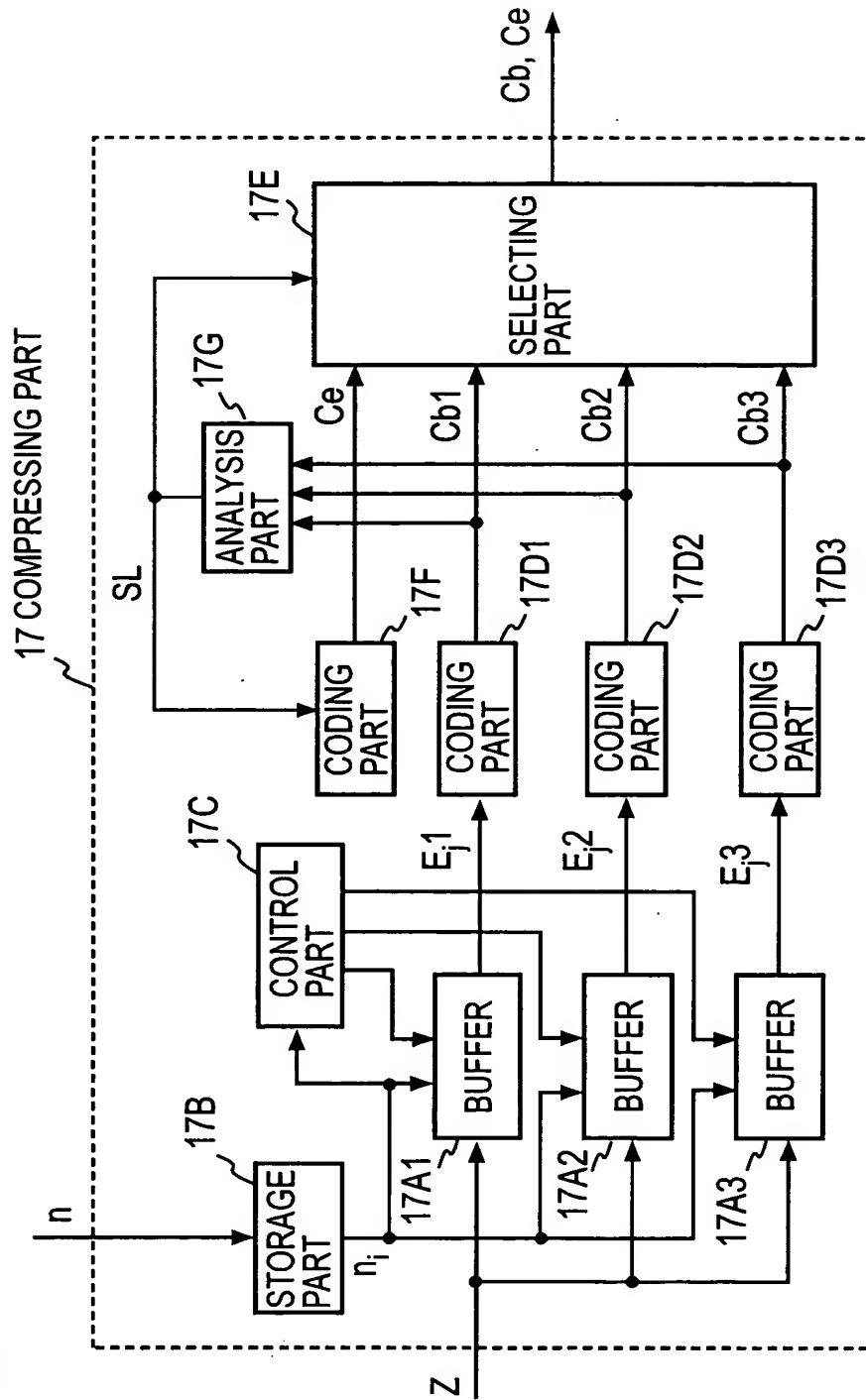




FIG. 29



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FIG. 30

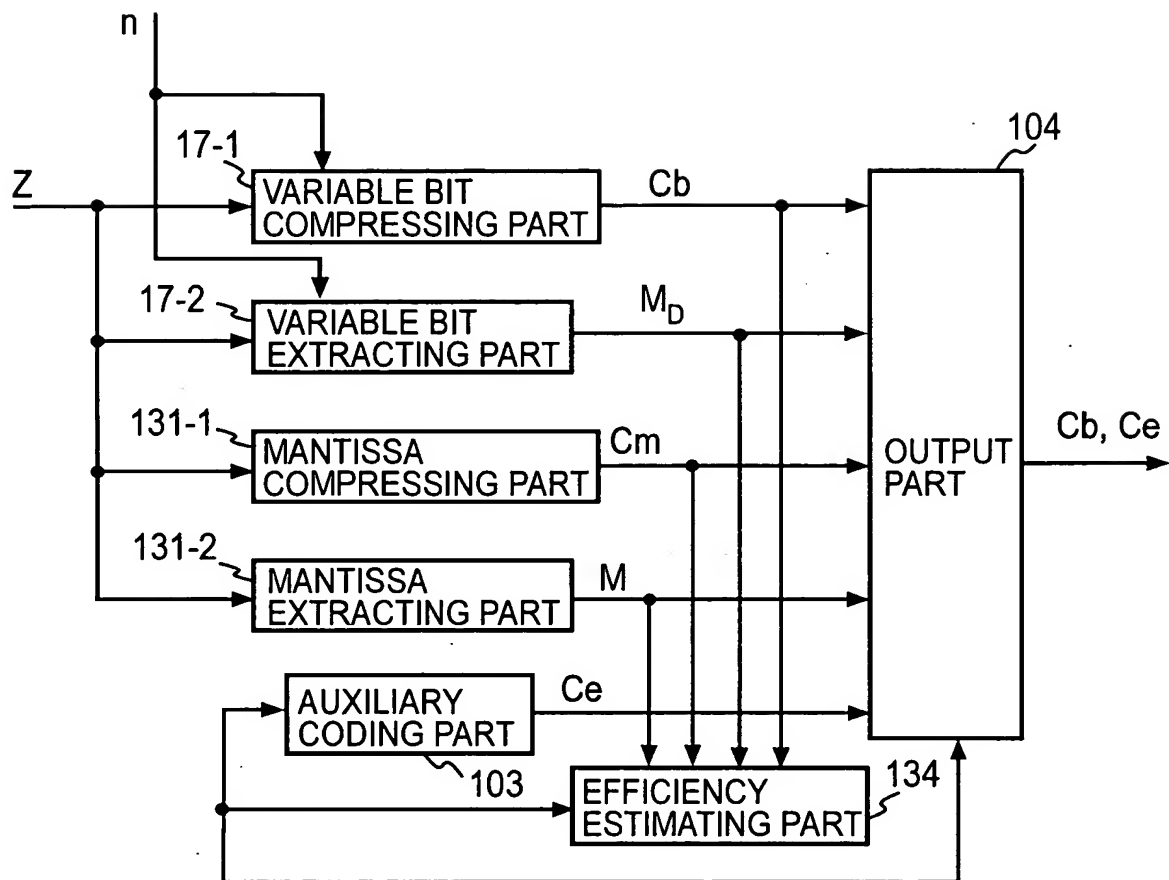
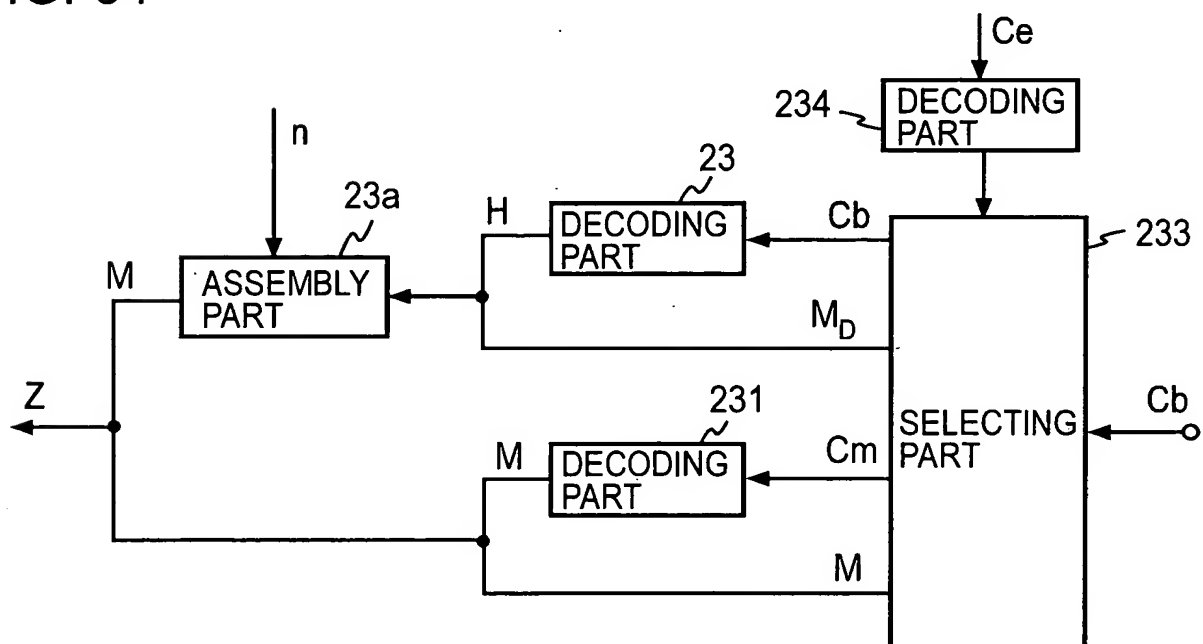


FIG. 31



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FIG.32

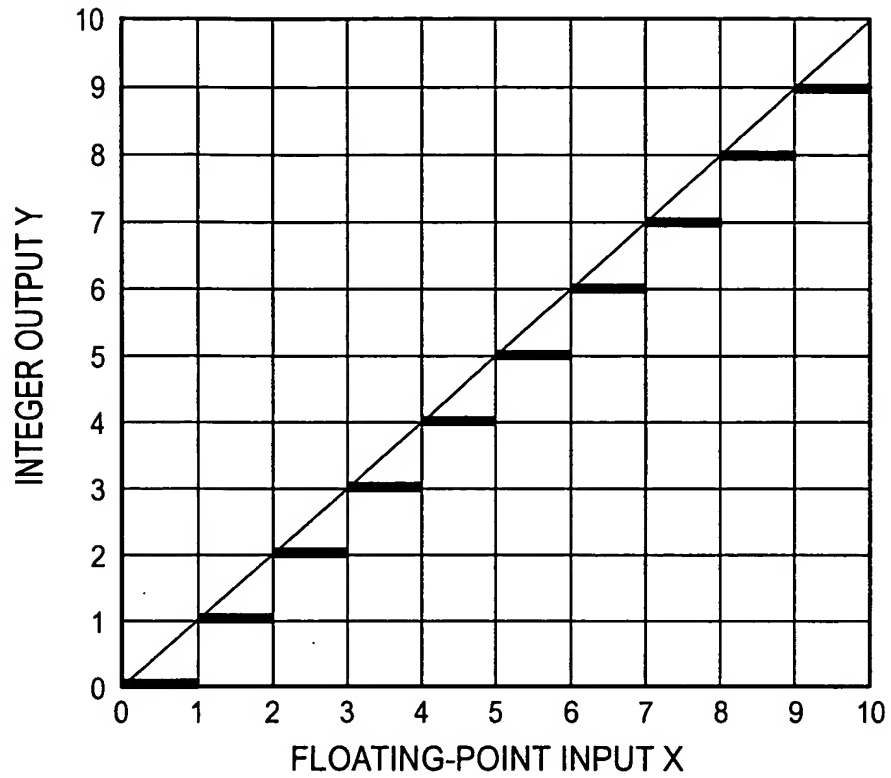


FIG. 33

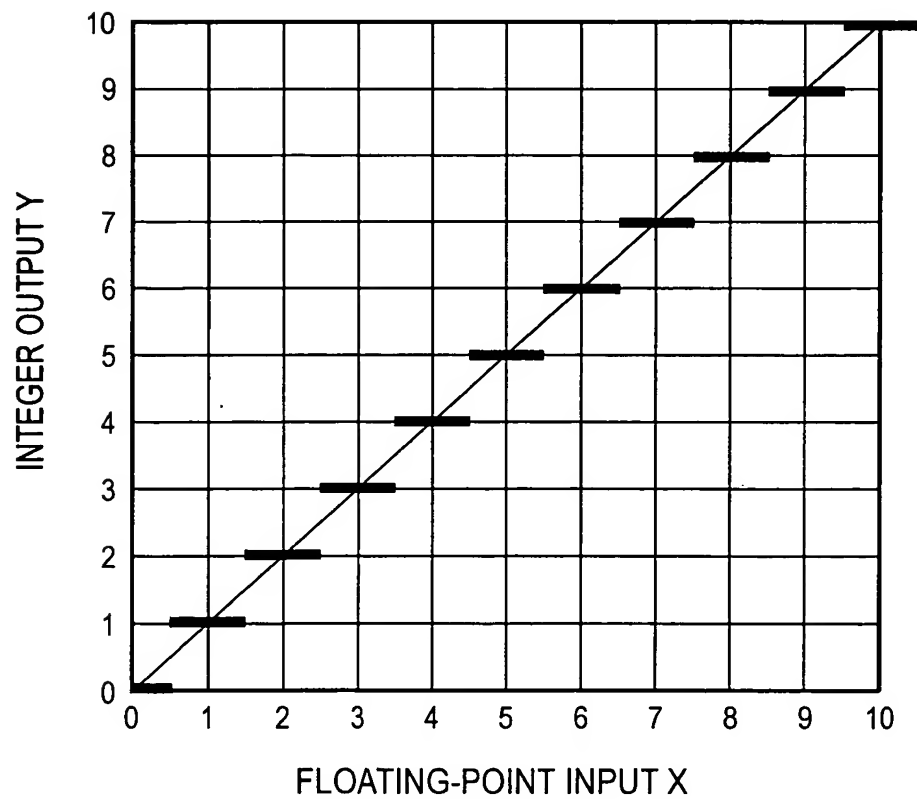
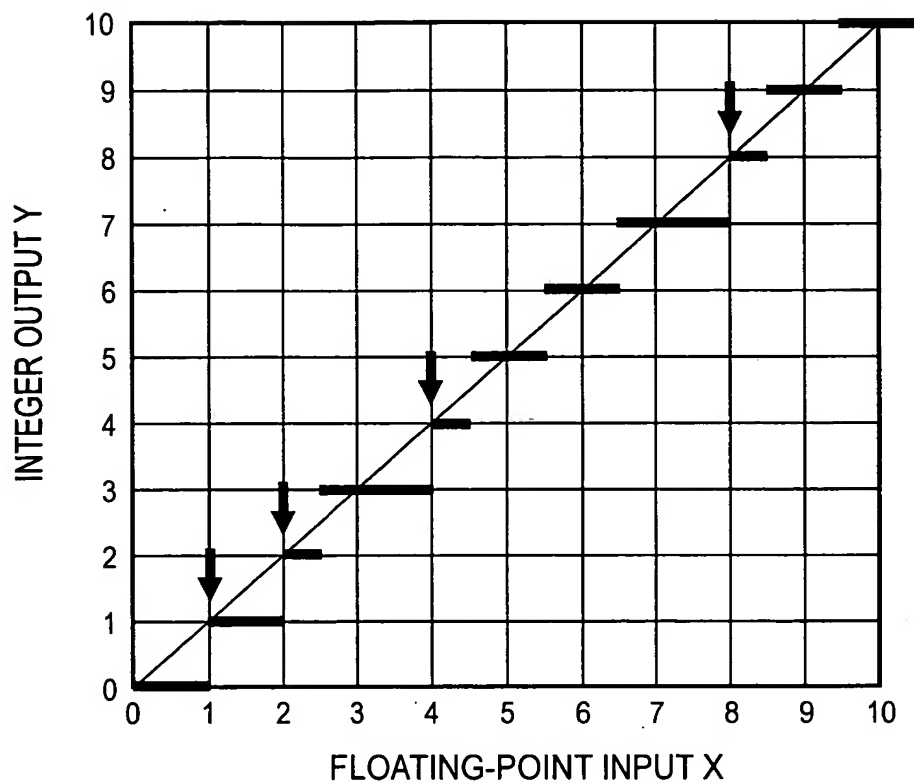


FIG. 34



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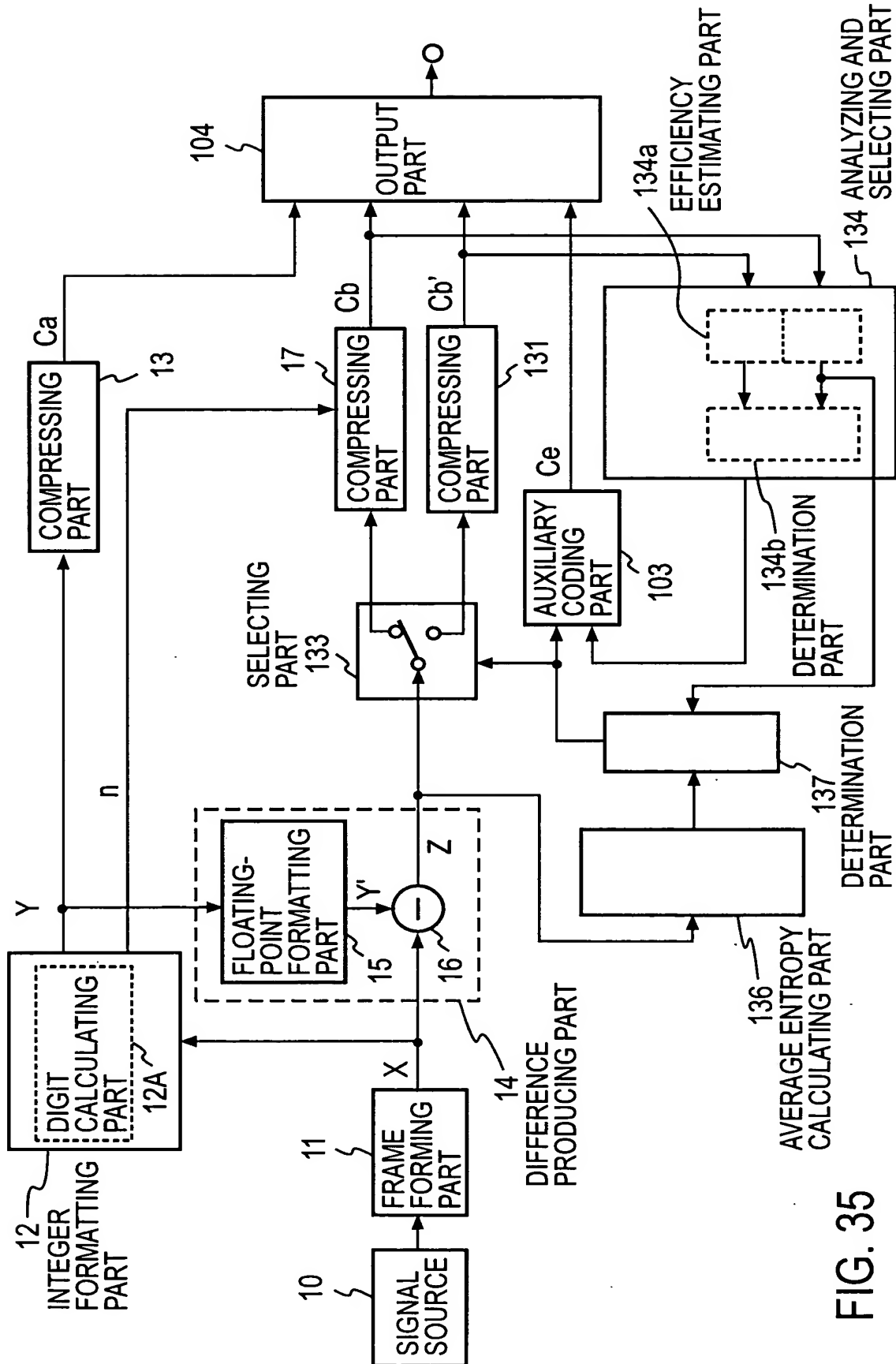


FIG. 35

FIG. 36

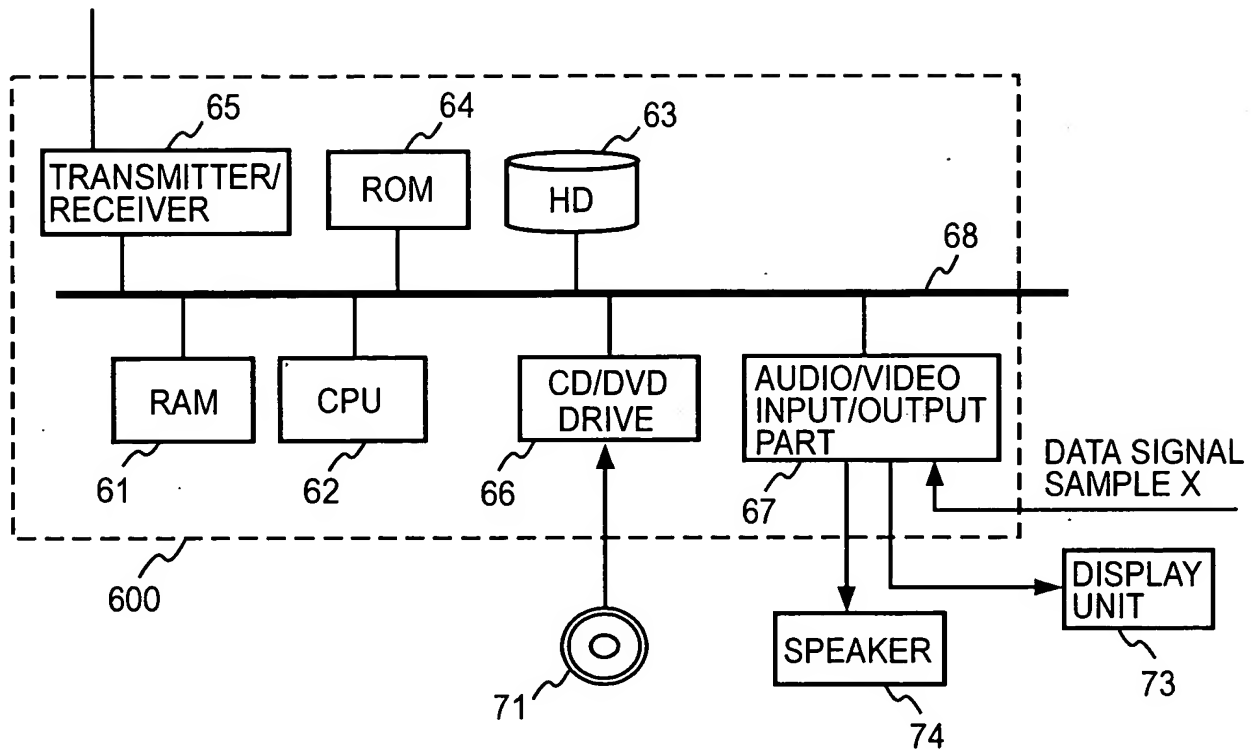


FIG. 37

